

AR43



**VICKERS**

Includes Canadian Vickers Ltd.



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Hallmark of high achievement in British Industry



# Working for Vickers

Many positions of high responsibility – including seats on the main Vickers board as well as on the boards of the operating groups – are today held by men who received their initial training with the Company as apprentices, or student or graduate trainees.

This training is normally integrated either with national certificate or diploma courses or with programmes leading to degrees or professional qualifications. Extensive use is made of external educational establishments on a full-time, sandwich, or day-release

basis. The system is flexible and outstanding apprentices may transfer to degree courses.

Liaison on training policy, practice and associated matters is maintained through a committee representing each of the product groups and Head Office.

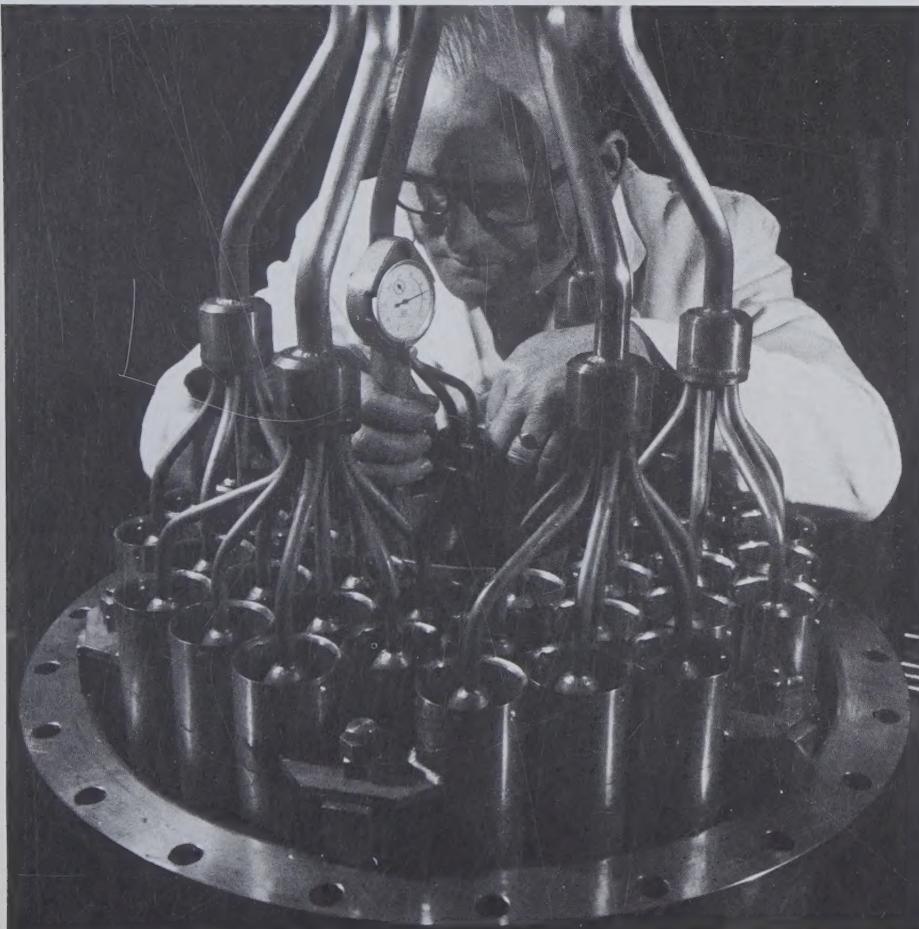
Each product group, however, is responsible for the training of its own personnel and there are full-time training officers and staff at all the major establishments. The progress of individual careers is systematically

assessed, so that appropriate additional training and experience can be provided if this seems necessary to develop potential in particular areas, or to prepare for acceptance of increased responsibility.

Such training is both on and off the job and makes use not only of Vickers own facilities but also the courses available at colleges, universities and business schools.

Most Vickers establishments have social clubs which organise an

impressive range of activities, and several possess excellent sports grounds and facilities.



*Dualchannel analysers being checked on the production line at Swindon*

*Inspecting gas separator unit for UKAEA*

# The Anatomy of Vickers

## Diary 1965 to 1973

**1965**

**April:** All wholly-owned subsidiaries transferred to Vickers Limited.

**May:** Re-organisation of Company's interests in Australia, including issue to the public of one-third of shares of Vickers Australia.

**September:** Vickers acquired the capital of R. W. Crabtree & Sons Limited, a group having an international reputation in the printing machine industry (with this addition to the resources already controlled through George Mann & Company Limited, Vickers became a major supplier in this important industry).

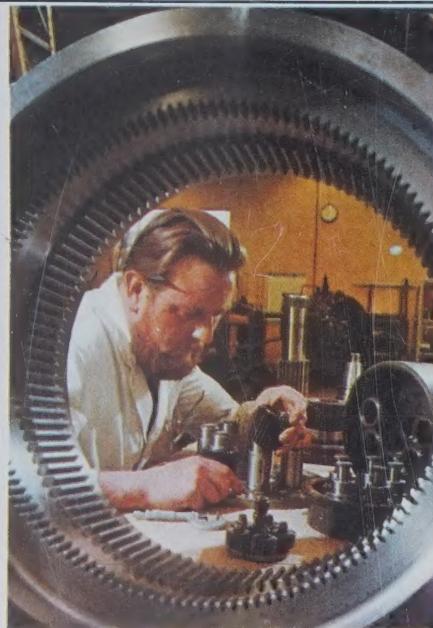


Roneo Vickers office furniture at Vickers House

**1966**

**July:** Formation of Roneo Vickers Office Equipment Group following acceptance of Vickers offer for the whole of the share capital of Roneo Limited.

Commissioning at Barrow Shipyard of HMS *Valiant*, first all-British nuclear submarine.



Epicyclic gears being assembled

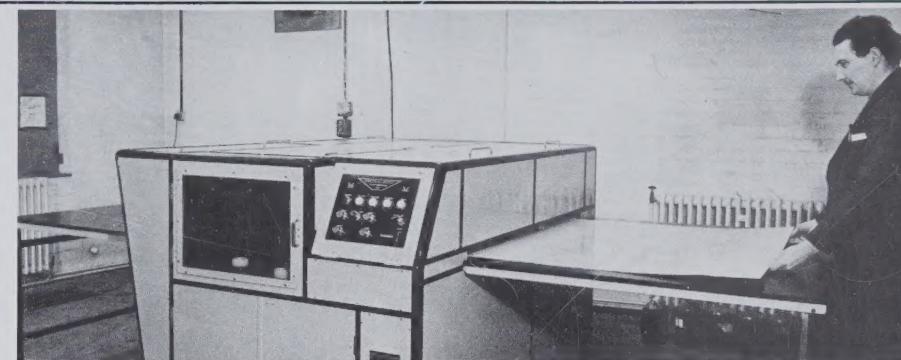
**1968**

**November:** Vickers received order from Ministry of Defence for first of new Type 42 guided missile destroyers.

**1969**

**January:** Vickers disposed of its holding in Metropolitan-Cammell (Holdings) Limited to Cammell Laird & Co Ltd. Vickers acquired whole of share capital of Michell Bearings Limited, Newcastle upon Tyne.

**February:** Government announcement of intention to place with Vickers all future orders for nuclear submarines.



Marathon 48 Automatic plate processor, developed by Howson-Algraphy for negative pre-sensitized plates

**June:** Fiftieth anniversary of first direct transatlantic flight - by Alcock and Brown in a Vickers Vimy. Roneo acquired Compagnie du Roneo



SA, Paris, to provide a manufacturing and marketing base in continental Europe.

**1970**

**January:** Vickers disposed of 12.64 per cent holding in International

Computers (Holdings) Limited.

**March:** Formation of Howson-Algraphy Limited.

**May:** Contracts for two Type 42 destroyers placed by the Argentine Government with Vickers Shipbuilding Group.

**September:** Mr. Peter Matthews joined Vickers Limited as Managing Director and Chief Executive.

**1971**

**February:** Vickers acquired 99.7 per cent of the issued share capital of Usines Arthur Vandergeeten SA, of Belgium, a private company manufacturing bottling machinery.

**May:** Vickers Instruments received design award from Council of Industrial Design for its M41 research microscope.

**June:** Lord Robens became non-executive Chairman of Vickers Limited following retirement of Sir Leslie Rowan.

Launch at Barrow Shipyard by Her Majesty the Queen of HMS *Sheffield*, first of the Type 42 destroyers for the Royal Navy and announcement of order for a second Type 42. Sale completed of Vickers-Zimmer AG to Davy-Ashmore Limited.

**1972**

**March:** Roneo-Neopost postal franking machine won Design Council (then CoID) Award.



Oceanic exploration and underwater equipment

**April:** Formation of Vickers Oceanics Limited to develop and improve British capability in oceanology and provide facilities for underwater work in both deep sea and shallow water conditions.

**1967**

**April:** 17 April: 100th Anniversary of formation of Vickers Limited as a public company.

**July:** Vickers holding of shares in English Steel Corporation vested in the British Steel Corporation under the terms of the Iron and Steel Act 1967.

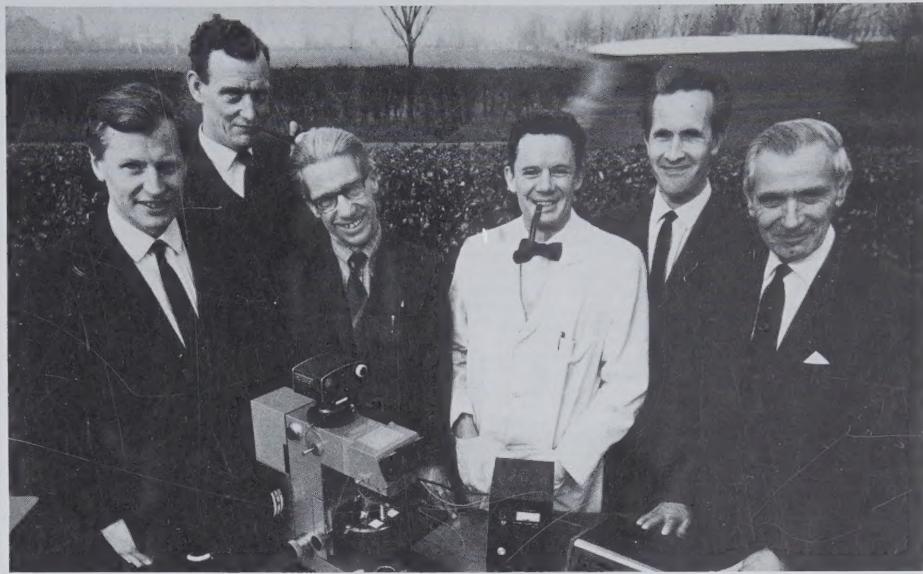
**October:** Completion to programme at Barrow Shipyard of HMS *Resolution*, first of the British-built Polaris submarines.

*Launch of nuclear-powered submarine*

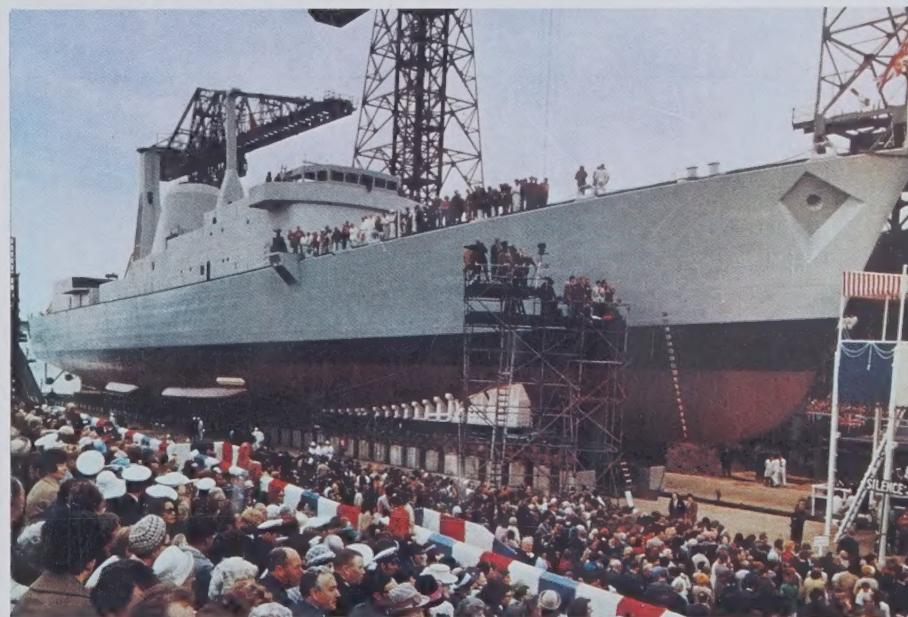


**April:** Vickers acquired Algraphy Limited, manufacturers of litho plates, chemicals and graphic arts equipment. Vickers Australia Limited made agreed offer for the whole of the issued share capital of Hadwa (Hadfields WA) Ltd, of Perth, Western Australia, a steel foundry business.

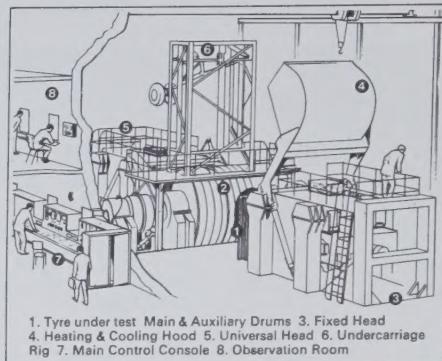
**May:** Roneo Ltd, acquired the whole of the issued share capital of Hirst Buckley Limited, of Scissett, to strengthen their movement into the field of sophisticated business systems and computer peripherals.



*The team behind the award-winning M41 microscope  
Launch of Type 42 destroyer*



Vickers obtain remaining equity of Brown Brothers and Co. Ltd., the marine and general engineers of Edinburgh.



*Diagrammatic drawing of Dunlop dynamometer*

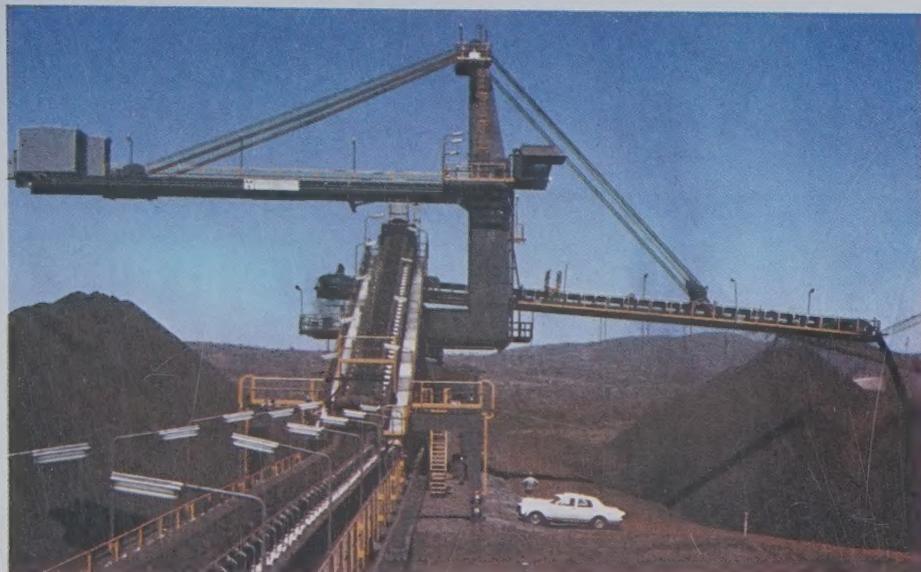
**June:** Mr. Leonard Redshaw, Chairman of Vickers Shipbuilding Group, knighted in the Birthday Honours for services to Export.

**1973**

**April:** Shipbuilding Group and Howson-Algraphy each wins The Queen's Award to Industry for outstanding export performance. Shipbuilding Group obtain contract for construction of new type of 'through-deck' cruiser for Royal Navy.

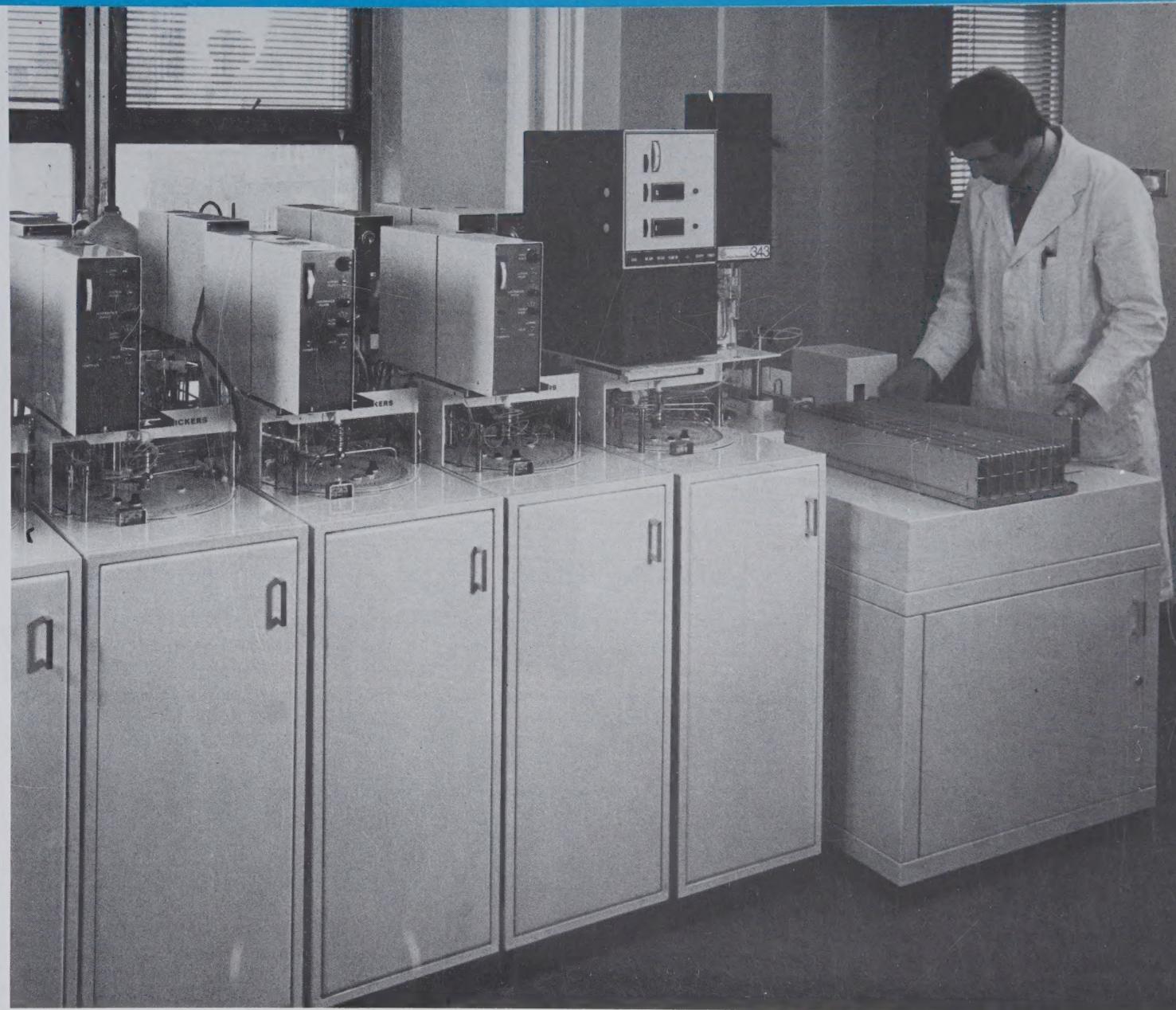
**July:** Properties surplus to trading needs transferred to a wholly-owned subsidiary company.

# The Anatomy of VICKERS

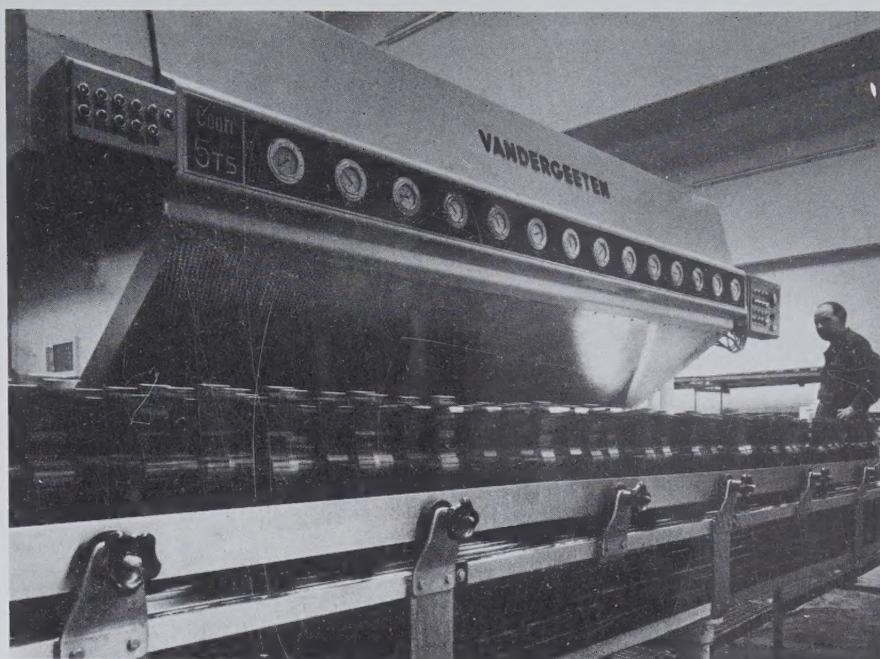
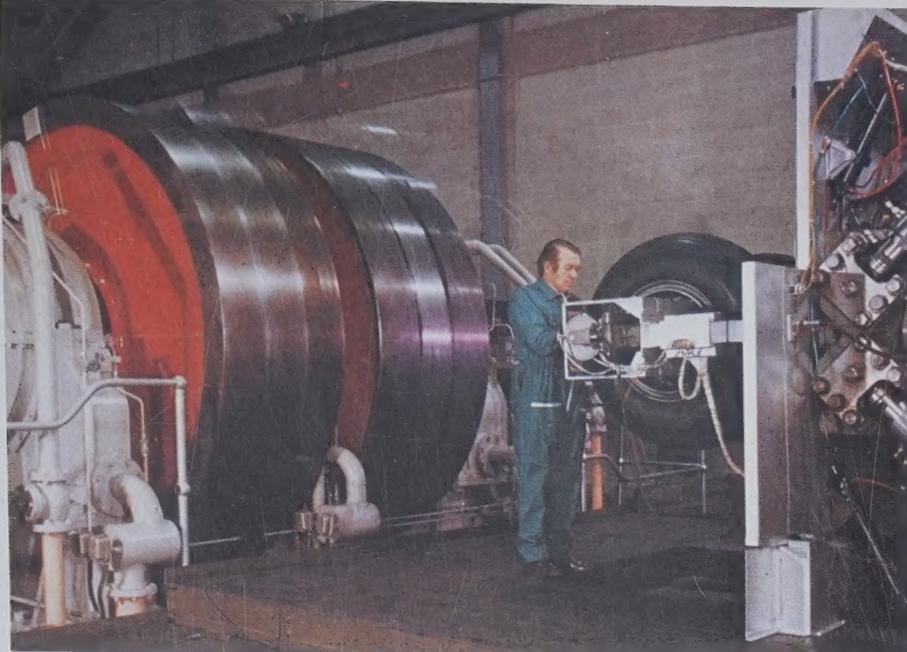


Ore Stacker built by Vickers Hoskins

Stainless steel rail car bodies in construction at Canadian Vickers



Multichannel 300 automated biochemical analysis system (St. Bartholomew's Hospital)



Dynamometer (Dunlop) for  
high-speed testing of aircraft  
tyres, wheels and brakes  
Complete bottling plant  
installations

Paceco Portainer crane  
Printing machinery  
Malting plant

# The Anatomy of Vickers

Overseas  
6 Companies

## Southern Africa

### VICKERS SOUTHERN AFRICA (PTY) LTD

19 Bridget Road Benrose Extension Johannesburg South Africa  
*Postal Address* PO Box 27196 Benrose Transvaal  
*Telephones* 24-8581, 24-9187, 24-8527/0  
*Telegraphic Address* Vickersaf Johannesburg  
*Telex* 43 6538 SA

#### Subsidiary companies

Cooke, Troughton & Simms (Pty) Ltd  
Roneo Vickers (Manufacturing) (Pty) Ltd  
Roneo Vickers South Africa (Pty) Ltd  
Pinalex Investments (Pty) Ltd  
Vickers (Engineering) (Pty) Ltd  
Vickers Instruments (Pty) Ltd

#### Board

H. H. McGregor PrEng BSc(Eng) MIMechE Chairman  
J. S. Cooper MA BSc(Eng) AMSAIMEchE Director responsible for Engineering  
D. R. Makins ACMA Director responsible for Office Equipment marketing and manufacturing unit  
G. E. Crimp FCA Group Financial Director and Director responsible for Vickers Instruments  
D. J. Groom FCA

A subsidiary of Vickers Southern Africa (Pty) Ltd selling many of the Roneo products shown on 'Office Equipment' pages.

### Roneo Vickers South Africa (Pty) Ltd

19 Bridget Road Benrose Extension  
Johannesburg South Africa  
*Postal Address*  
PO Box 27196 Benrose Transvaal  
*Telephone* 24-8581, 24-9187,  
24-8527/0  
*Telegraphic Address*  
Visible Johannesburg  
*Telex* 43 6538 SA

Branches at Durban Capetown  
Pretoria Pietermaritzburg Port Elizabeth Benoni and represented by agents throughout the Republic and in South West Africa  
Marketing company responsible for sales of copiers, off-set office machines, duplicators and ancillary supplies, filing systems and records, office furniture and mailroom equipment.  
D. R. Makins ACMA  
*Managing Director*

### Roneo Vickers (Manufacturing) (Pty) Ltd

Works 6 Skew Road Boksburg North  
*Postal Address* PO Box 495 Boksburg  
*Telephone* 54-1313, 54-1394  
*Head Office* 19 Bridget Road Benrose Extension Johannesburg South Africa  
Light engineering works for all types of steel furniture, office equipment, kitchen units and fitted wardrobes. Customers include Government Departments and the office equipment section of industry, in addition to sheet metal, production and assembly of filing systems.  
D. R. Makins ACMA  
*Managing Director*

### Vickers (Engineering) (Pty) Ltd

19 Bridget Road Benrose Extension  
Johannesburg South Africa  
*Postal Address*  
PO Box 1137 Johannesburg  
*Telephone* 24-8581/4, 24-9187,  
24-8527/0  
*Telegraphic Address*  
Vickersaf, Johannesburg  
*Telex* 43 6538 SA

Sales company responsible for promoting sales of certain Vickers Engineering Group Products.  
J. S. Cooper  
MA BSc(Eng) AMSAIMEchE  
*Managing Director*

### Vickers Instruments (Pty) Ltd

19 Bridget Road Benrose Extension  
Johannesburg South Africa  
*Postal Address*  
PO Box 7131 Johannesburg

*Telephone* 24-8581, 24-9187,  
24-8527/0

*Telegraphic Address*  
Co-ordinate Johannesburg  
*Telex* 43 6538 SA  
Marketing and servicing of microscopes, levels, theodolites and survey and ancillary products.  
G. E. Crimp FCA  
*Managing Director*

### Cooke, Troughton & Simms (Pty) Ltd

Protea Assurance Building  
cr. St. George's and Longmarket Streets Capetown  
*Postal Address*  
PO Box 1552 Capetown  
*Telegraphic Address*  
Co-ordinate Capetown  
*Telephone* 41-2135  
Ophthalmic Service  
T. Paitaki FOA(SA)  
*Managing Director*

## India

### VICKERS INDIA PRIVATE LIMITED

136 Sundar Nagar New Delhi 3 India  
*Telephone* New Delhi 618387/9  
*Telegrams* Vickindo New Delhi  
Vickers India is a sales company responsible for the majority of Vickers products in India.  
S. M. Nabar  
*Chairman and Managing Director*

## VICKERS LIMITED INTERNATIONAL DEPARTMENT

PO Box 177 Vickers House  
Millbank Tower  
Millbank London SW1P 4RA  
*Telephone* 01-828 7777  
*Telegrams* Vickers London  
*Telex Cablegrams* Vickers London SW1  
*Telex* 27921

## AREA OFFICES

**East Europe Office**  
PO Box 177 Vickers House  
Millbank Tower  
Millbank London SW1P 4RA  
Countries included in Area :  
Albania, Bulgaria, Czechoslovakia,  
East Germany, Hungary, Poland,  
Romania, USSR, Yugoslavia

## West Europe Office

Brussels Office  
c/o Vickers Vandergeeten S.A.  
253-257 Rue de Birmingham  
1070 Brussels 7 Belgium  
Countries included in Area :  
Austria, Belgium, Denmark, Finland,  
France, W. Germany, Italy,  
Luxembourg, Malta, Netherlands,  
Norway, Portugal, Spain, Sweden,  
Switzerland

## Hong Kong Office

PO Box 517 Hong Kong  
Countries included in Area :  
Brunei, Burma, Hong Kong,  
Indonesia, Japan, Khmer, Laos,  
Malaysia, Philippines, Singapore,  
South Korea, Taiwan, Thailand,  
Vietnam

## Products of the Overseas Companies

### VICKERS RUWOLT, MELBOURNE

Cement making machinery  
Malting and brewing machinery  
Mining and quarrying machinery  
Paper and pulp machinery  
Presses for automated industry  
Rubber and plastics machinery  
Structural steel buildings and bridges

### VICKERS HOSKINS, PERTH

Container handling cranes  
Iron and non-ferrous castings  
Kilns and dryers  
Pressure vessels  
Radial drills  
Ship and land based container handlings  
Ship and land based overhead cranes  
Strip handling equipment  
Winches

### COCKATOO DOCKS, SYDNEY

Shipbuilding, ship repairs—  
naval and commercial

### VICKERS HADWA, PERTH

Castings, steel

### CANADIAN VICKERS, INDUSTRIAL, MONTREAL

General engineering  
Platework, pipework,  
copperwork  
Special machinery for mining  
and other industries, hydraulic  
presses  
Transportation equipment  
Engineering for Defence projects

### CANADIAN VICKERS, MARINE, MONTREAL

Ship repair services

**Johannesburg Office**  
PO Box 1137 Johannesburg  
South Africa

Countries included in Area :  
Angola, Botswana, Lesotho,  
Madagascar, Malawi, Mauritius,  
Mozambique, Republic of South  
Africa, South-West Africa,  
Swaziland

**New Delhi Office**  
136 Sundar Nagar New Delhi 3 India  
Country : India

**Sydney Office**  
9th Floor Sun Alliance Building  
22–30 Bridge Street  
Sydney NSW 2000 Australia  
Country : Australia

## USA

### VICKERS AMERICA, INCORPORATED

120 Charlotte Place Englewood Cliffs  
New Jersey USA 07632  
*Telephone* 201-569-2882  
*Telex* 135475  
Sales and service organisation for  
certain Vickers products.  
D. R. Sadtler *President and Chief  
Executive*

### VICKERS INSTRUMENTS INCORPORATED

*Headquarters*  
15 Waite Court Malden  
Massachusetts USA 02148 (PO Box K)  
*Telephone* (617) 324-6666

#### *Telegrams & Cables*

Co-ordinate Boston  
Marketing instruments and servicing.  
*Products:* Microscopes, optical  
instruments, metallurgical  
preparation equipment and laboratory  
equipment.

G. R. Osgood Jnr AB *President*

### MEDI-COMPUTER CORPORATION

120 Charlotte Place Englewood Cliffs  
New Jersey USA 07632  
*Telephone* 201-569-2882  
*Telex* 135475  
Dr. P. Seamonds *President*

### CRABTREE-VICKERS INCORPORATED

120 Charlotte Place Englewood Cliffs  
New Jersey USA 07632  
*Telephone* 201-568-5980  
*Cables Usacrabs* Englewood Cliffs  
New Jersey  
*Telex* 135/475  
Sales and service organisation for  
Crabtree-Vickers printing machinery  
in the United States and South  
America.

T. M. Broadston  
*Vice-President and General Manager*

### HOWSON-ALGRAPHY

(Division of Crabtree-Vickers Inc)  
460 Meadow Lane Carlstadt  
New Jersey 07072 USA  
*Telephone* 201-935-4560  
*Telex* 138969  
Sales and service organisation for  
Howson-Algraphy products in the  
United States.  
D. B. White *President*

# The Anatomy of VICKERS

Overseas  
5 Companies

## Australia

### VICKERS HOLDINGS PTY. LIMITED

6th Floor 100 Exhibition Street Melbourne Victoria 3000  
Telephone 63 7567/8 Telegams & Cables Vickaust Melbourne

#### Subsidiary companies

Vickers Australia Limited (56.62 per cent)

Vickers Hadwa Pty. Limited

Vickers Hoskins Pty. Limited

Vickers Ruwolt Proprietary Limited

Vickers Adams Proprietary Limited

Vickers Ruwolt Research Pty. Limited

Vickers Cockatoo Dockyard Pty. Limited

Crabtree-Vickers Pty. Limited

Howson-Algraphy Pty. Limited

Middows Brothers Pty. Limited

Roneo Vickers Pty. Limited

Roneo Systems Pty. Limited

Roneo Vickers (New South Wales) Pty. Limited

Roneo Vickers (South Australia) Pty. Limited

Roneo Vickers (Queensland) Pty. Limited

Roneo Vickers (Victoria) Pty. Limited

#### Board

E. P. M. Harty ACA Chairman

P. D. Scott Maxwell DSC CEng FIMechE Managing Director

G. M. Bunning FASA

G. B. Kater MA FIEE MIEAust

P. A. Matthews

J. G. Wilson OBE MA(Cantab) MIEAust

Representative in Canberra Rear-Admiral F. Leveson George CBE RAN(Rtd)

Red Cross House Hobart Place Canberra City ACT 2601

Telephone Canberra 44675

### VICKERS COCKATOO DOCKYARD PTY. LIMITED

Cockatoo Island Sydney NSW 2000

Telephone 82 0661

Telegams & Cables Codock Sydney

Telex 21833

Situated on a 44-acre island the Dockyard is owned by the Commonwealth Government and administered by the Department of the Royal Australian Navy. It is operated under a lease and trading

agreement by Vickers Cockatoo Dockyard Pty. Limited, a wholly-owned subsidiary of Vickers Holdings Pty. Ltd. The facilities are very extensive and, as an integrated engineering complex, the dockyard is unique in Australia, and rates as one of the most complex dockyards in the British Commonwealth. The establishment also is of historical interest - the first dry dock on the island was built over 100 years ago and the first ship, HMS *Herald*, docked in December 1858.  
*R. R. W. Humbley BEc*  
*Managing Director*

### VICKERS AUSTRALIA LIMITED

6th Floor 100 Exhibition Street

Melbourne Victoria 3000

Telephone 63 7567/8

Telegams & Cables

Vickaust Melbourne

P. D. Scott Maxwell

DSC CEng FIMechE

Managing Director

Branch Office

9th Floor 22-30 Bridge Street

NSW 2000

Telephone 27 6232

S. V. Hannaford

AMIEAust MAustIMM Manager

A Public Company.

(Vickers Holdings Pty Ltd interest 56.62 per cent).

## Canada

### CANADIAN VICKERS LIMITED

(Vickers Interest 72.03 per cent)

#### Industrial Division

#### Marine Division

5000 Notre Dame Street East Montreal 404 Quebec Canada

Telephone 514-2562651 (Nights, Sundays, and Holidays 514-2562761)

Telegams & Cables Vickers Montreal Telex 01-20287

#### Subsidiary company (wholly owned)

Montreal Ship Repairs Limited

1151 Mill Street Montreal 104 Quebec Canada

Telephone 514-9359606 (24-hour service)

Telegams & Cables Redmac Montreal

#### Board

W. Bherer QC Chairman

J. Eric Harrington MEIC MCSCE President and Chief Executive Officer

W. D. E. Anderson

T. H. Montgomery QC

C. D. Atkins

J. A. Reekie CA

T. J. Farrell MSc(Eng)

J. H. Rogers CA

G. H. Macdougall

A. Sankoff BSc(Eng)

P. A. Matthews

K. A. White CD

The Company's main efforts are directed toward the building of custom built heavy engineering equipment, notably components for nuclear power plants, and to ship repairing.

Also in the nuclear field Canadian Vickers has formed a consortium with Eldorado Nuclear Limited and Dilworth, Secord, Meagher and Associates Ltd to design and supply containers for radio-active materials.

Approximately 500,000 square feet are employed for the production of machinery for the mining, pulp and paper, hydro electric and other heavy industries.

Ship repair facilities include floating drydocks, each over 600ft long, capable of docking all vessels normally entering the Port of Montreal. Two floating cranes of 275 tons and 75 tons capacity are available from the Harbour and Seaway Authorities for heavy lifts.

**Vickers Hadwa Pty. Limited**  
179 St. George's Terrace Perth  
Western Australia 6000  
GPO Box A41 Perth WA 6001  
*Telephone 21 9821*

*Telegrams & Cables* Hadwa Perth  
*Telex AA 92450*  
Hadwa was acquired by Vickers Australia in 1969 and is the largest steel foundry in Western Australia, supplying heavy castings in steel and other alloys to the mining, agricultural and general engineering industries both in Australia and overseas. It is important not least to Vickers Hoskins, who are near neighbours and previously relied on castings from Eastern Australia, 2,000 miles away.

W. W. G. Meecham *Managing Director*

**Vickers Hoskins Pty. Limited**  
Railway Parade Ashfield Bassendean  
Perth Western Australia 6054  
PO Box 51 Bassendean

*Telephone 79 1683*

*Telegrams & Cables*

Hosco Bassendean

This company, acquired by Vickers Limited in 1956, manufactures a wide range of equipment for major installations throughout Australia, including ship and land-based container handling cranes, overhead cranes up to 150 tons, winches, spillway gates and hoists, mining machinery, radial drills, pressure vessels, boilers, kilns and driers, and strip handling equipment. The machine shop is the largest and most modern in Western Australia.

W. T. Peart *Managing Director*

**Vickers Ruwolt Proprietary Limited**

524-582 Victoria Street Richmond  
Victoria 3121  
*Telephone 42 2711 & 42 3311*

*Telegrams & Cables*

Ruwolt Melbourne

In 1902 a small engineering firm was founded in Victoria by Charles Ruwolt to make windmills for farms. His company was so successful that it expanded to build the complex dredges that replaced hand-panning methods used in Australian gold mining. By 1927, when the last dredge for gold mining was built, Ruwolts had grown bigger and added rock crushing, mining and cement-making equipment to its products. The company became part of Vickers in 1948 and today is one of the biggest engineering works in the Southern Hemisphere.

N. H. Ineson BE *Managing Director*

**Vickers Adams Proprietary Limited**

Wickham Road Moorabbin  
Victoria 3189  
*Telephone 95 1255*

A Ruwolt subsidiary, Vickers Adams, produces non-ferrous castings and is also known for its statuary work. Examples can be seen in Britain in Canterbury Cathedral where there are five altar pieces cast in silver and mounted on Australian Beanwood.

R. I. George

*Manager and Chief Executive*

**CRABTREE-VICKERS PTY. LIMITED**

215-231 Grant Street  
South Melbourne Victoria 3205  
*Telephone 692101 (Area Code 03)*  
*Cables Bellvalentine Melbourne*

Sydney Office PO Box 170 Rozelle  
Sydney New South Wales 2039  
*Telephone 211 0155*  
*Cables Bellvalentine Sydney*

Adelaide Office 144 North Terrace  
Adelaide South Australia 5000  
*Telephone 51 5041*

Brisbane Office Corner Fison Avenue  
and Holt Street Eagle Farm Brisbane  
Queensland 4007  
*Telephone 68 4011*

Auckland Office 131-139 Hobson Street  
Auckland New Zealand  
*Telephone 36 2428 (Area Code 016)*  
*Telegrams Crabco*  
*Telex Newcrab NZ 2924*

Sales and service organisation for Crabtree-Vickers printing machinery in Australia and New Zealand.  
D. S. Worthington CEng FIProdE  
*Managing Director*

**HOWSON-ALGRAPHY PTY. LIMITED**

215-231 Grant Street  
South Melbourne Victoria 3205  
*Telephone 699 1666 (Area code 03)*  
*Cables Howgraphy-Melbourne*  
*Telex Crabwick AA 32137*  
PO Box 164N Melbourne 3001

**CRABTREE-VICKERS (CANADA) LIMITED**

123 Eglinton Avenue East  
Toronto Canada M4P 1J2  
*Telephone 483-1103 (Area Code 416)*

Sydney Office 11 South Street  
Rydalmere PO Box 95 Erminston NSW  
*Telephone 638 6310, 6320 & 6325 (Area Code 02)*  
*Cables Howgraphy-Sydney*

Adelaide Office 144 North Terrace  
Adelaide South Australia 5000  
*Telephone 51 5041*

Sales and service organisation for Howson-Algraphy products in Australia. The company also manufactures certain types of chemicals for the printing industry.  
T. Sutherland *Managing Director*

Controlled by Vickers Holdings (Pty) Ltd, are Roneo selling companies in New South Wales, South Australia, Queensland and Victoria, which are responsible for the sale of the majority of Roneo Products shown on 'Office Equipment' pages.

**RONEO VICKERS PTY. LIMITED**

73-81 Wellington Road East Brisbane  
Queensland 4169  
*Telephone 91 3889*  
*Telegraphic Address Roneostyle*  
Brisbane  
Subsidiary companies  
Roneo Systems Pty. Limited Brisbane  
G. H. Tickle *Managing Director*

Roneo Vickers  
(New South Wales) Pty. Ltd  
78-86 George Street

Sales and service organisation for Crabtree-Vickers products.  
D. S. Murley BSc(Eng) PEng  
*President*

Redfern NSW 2016  
*Telephone 69-8966*  
*Telegraphic Address*  
Roneostyle Sydney  
A. T. Webb *General Manager*

Roneo Vickers (Queensland) Pty. Ltd  
73-81 Wellington Road East Brisbane  
Queensland 4169  
*Postal Address* PO Box 131  
East Brisbane Queensland Australia 4169  
*Telephone 91 3351*  
*Telegraphic Address*  
Roneostyle Brisbane  
E. G. Palmer *General Manager*

Roneo Vickers  
(South Australia) Pty. Ltd  
144 North Terrace GPO Box 1206K  
Adelaide South Australia 5001  
*Telephone 51 5041*  
*Telegraphic Address*  
Roneostyle Adelaide  
C. B. Lillecrapp *General Manager*

Roneo Vickers (Victoria) Pty. Ltd  
93-103 Clarendon Street  
South Melbourne Victoria 3205  
*Postal Address* PO Box 357  
South Melbourne Victoria Australia 3205  
*Telephone 69 6194*  
*Telegraphic Address*  
Roneostyle Melbourne  
R. N. Thomas *Manager*

# The Anatomy of Vickers

4 Howson-Algraphy  
& OTHER UK COMPANIES

Overseas  
5 Companies

## HOWSON-ALGRAPHY GROUP

Head Office and Northern Works  
Ring Road Seacroft Leeds LS14 1ND  
Telephone Leeds (0532) 644261 Cables Howgraphy Leeds Telex 557400

### Board

R. O. Taylor CA *Deputy Chairman*  
F. P. Tanner *Managing Director*  
S. E. Potter  
J. M. M. Clube *Sales Director (Export)*  
D. G. Shaw *Sales Director (Home)*  
D. H. Varley *Production Director*  
Dr. L. J. Watkinson MSc ARIC FSCT *Technical Director*  
A. W. Woodthorpe ACMA FACCA *Commercial Director*

Responsible for all Vickers' interests in the field of printing plates, chemicals and graphic arts equipment. It makes a wide range of lithographic plates, including negative working and positive working presensitised plates and deep etch plates, together with associated chemicals. Other products manufactured or marketed include platemaking and reproduction equipment and a comprehensive range of printers' sundries.

Southern Works  
Murray Road Orpington  
Kent BR5 3QR  
Telephone Orpington (01-66) 32155  
Cables Howgraphy Orpington  
Telex 27469

Kelvin Place Industrial Estate  
Thetford Norfolk  
Telephone Thetford (0842) 2246

Westwood Industrial Estate  
Ramsgate Road Margate Kent  
Telephone Thanet (0843) 21515

Atherstone Office  
Carylon Road Atherstone  
Warwickshire  
Telephone Atherstone (082 77) 4141

Bristol Office  
Bonville Road Brislington Bristol 4  
Telephone Bristol (0272) 746478

Glasgow Office  
Birkenshaw Industrial Estate  
Uddingston Glasgow WG71 5PU  
Telephone Uddingston (069 881)  
4636/7/8

Manchester Office  
Battersea Road Heaton Mersey  
Stockport  
Telephone 061-432 3204

**SWEDEN**  
**Howson-Algraphy AB**  
Drakenbergsgatan 19-23 Box 9199  
S-102 73 Stockholm 9 Sweden  
Telephone 08-69 0175  
Cables Howgraphy Stockholm  
Telex 11108 Howgrafs  
Sales and service organisation for  
Howson-Algraphy products in Sweden.  
B. Duffy *General Manager*

**HOLLAND**  
**Howson-Algraphy BV**  
Postbus 46  
Koningsweg 24 Soest 2650 Holland  
Telephone 02155-18944  
Cables Howter Soest Utr  
Telex 14692 (Code 2021)  
The group's main plate and  
manufacturing facility in Continental  
Europe for distribution to EEC  
countries together with a sales and  
service organisation.  
J. M. C. DeLeur *Managing Director*

**ITALY**  
**Howson-Algraphy SpA**  
Via Aosta 5 20063 Cernusco Sul  
Naviglio Milan Italy  
Telephone Milan 9041161-9042068-  
9042446  
Cables Howgraphy Milan  
Telex 36172 Howgraphy  
Sales and service organisation for  
Howson-Algraphy products in Italy.  
The company also has its own  
manufacturing facility for certain  
products.  
C. Ferrante *Managing Director*

### SPAIN

**Howson-Algraphy S.A.**  
Industria 296 Barcelona 13 Spain  
Telephone 236 6273 and 255 0840  
Cables Howgraphy Barcelona  
Sales and service organisation for



Lithographic printing plates

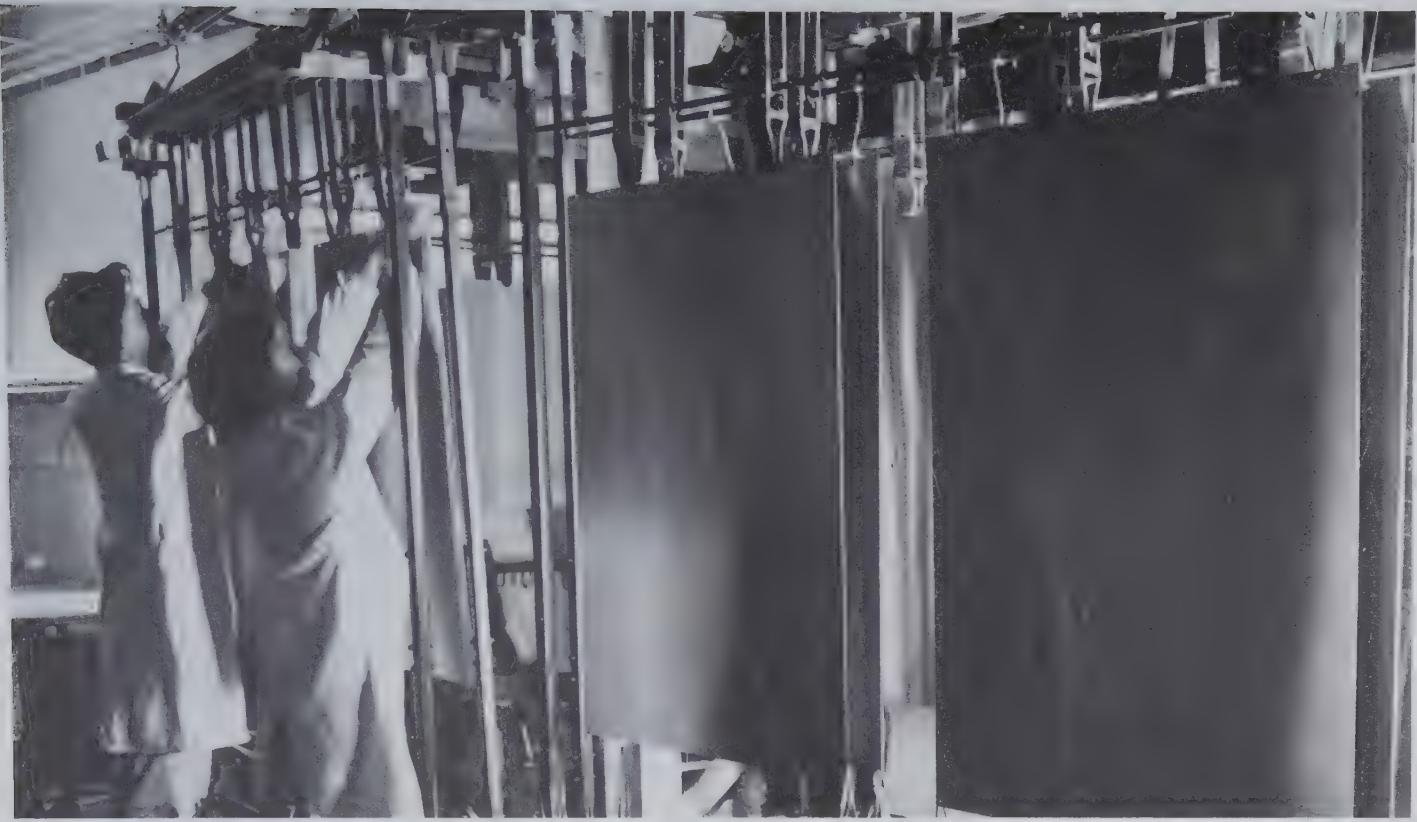
### Products of the Group

Lithographic printing plates and chemicals, including positive and negative presensitised plates and deep etch plates and processes.

Automatic plate processors, step-and-repeat machines, vertical cameras and other platemaking and reproduction equipment.

Printers' sundries.





*Finishing stages in the factory production of large format plates*



*The M86, a combined scanning micro interferometer and micro densitometer*

## OTHER UK COMPANIES

### VICKERS (INSURANCE)

#### LIMITED

PO Box 177 Vickers House

Millbank Tower Millbank

London SW1P 4RA

*Telephone* 01-828 7777

*Telegrams* Vickers London Telex

*Cablegrams* Vickers London SW1

*Telex* 27921

Advising, negotiating and purchasing all Group insurance requirements.

R. C. Skinner ACII Manager

### VICKERS RESEARCH ESTABLISHMENT

Sunninghill near Ascot Berkshire

*Telephone* Ascot (0990) 23456

*Telegrams* Research Ascot

Medium- to long-term developments of specific interest to the Engineering Group, the Roneo Vickers Office Equipment Group and the Printing Machinery and Supplies Divisions.

R. Beadle BSc Manager

### VICKERS PROPERTIES LIMITED

PO Box 177 Vickers House

Millbank Tower

London SW1P 4RA

*Telephone* 01-828 7777

*Telegrams* Vickers London

*Cablegram* Vickers London SW1

*Telex* 27921

To maximise the potential of properties in the Company's books.

N. Bevins Manager

For further Overseas offices  
see sheets 5 - 6

## VICKERS LIMITED VICKERS INSTRUMENTS

*Headquarters & Works*

Haxby Road York YO3 7SD

*Telephone* York (0904) 24112

*Telegrams* Co-ordinate York

### Sales Office & Instrument Service Department

26 Breakfield Coulsdon

Surrey CR3 2UE

*Telephone* 01-668 5287

*Telegrams* Orrery Croydon

Bishophill York

*Telephone* York (0904) 53829

### Drawing Office Equipment & Materials Department

**Cooke, Troughton & Simms**

26 Breakfield Coulsdon

Surrey CR3 2UE

*Telephone* 01-668 5287

*Telegrams* Orrery Croydon

### Ophthalmic Department

**Cooke, Troughton & Simms**

2 Glen House Stag Place

London SW1E 5AB

*Telephone* 01-222 3344

*Products:* Microscopes, levels, theodolites, metrology equipment, weapon sights, optical and light precision engineering, electronic instruments and pharmaceutical instruments. Special work in the development of customers' own projects - and of Government projects. Modern plant for precision light engineering.

A. J. Munro

TD BSc(Eng) CEng FIMechE FIProdE  
*Managing Director*

# The Anatomy of VICKERS

## Office 3 Equipment

4 Howson-  
Algraphy  
& OTHER UK COMPANIES

Overseas  
5 Companies

### RONEO VICKERS OFFICE EQUIPMENT GROUP

#### RONEO VICKERS LIMITED

Head Office Roneo House Lansdowne Road Croydon Surrey CR9 2HA  
*Telephone* 01-686 4333 and 4344  
*Telex* 946217

#### Board

D. J. Groom FCA *Chairman*  
L. G. Gooch OBE *Deputy Chairman*  
A. B. Butler *Commercial Director*  
J. Dupuis *Director of Compagnie du Roneo SA*  
K. W. Ketteringham *Group Marketing Director*  
P. J. Macleod BSc(Eng) *Technical Director*  
H. Micklethwaite *Deputy Chairman Hirst Buckley Limited*  
L. M. Wilkey *Sales Director*

One of the largest office equipment groups in Europe, with 36 sales centres throughout the United Kingdom, it exports to more than 100 countries abroad. With headquarters at Croydon, factories in the UK, France, Algeria, Holland, India, Italy, South Africa and Switzerland and sales companies in Australia, Belgium, France, Holland, India, Norway, Pakistan, South Africa, Sweden, Switzerland and West Germany, it produces almost everything for the office – desks and chairs, partitions and filing cabinets, complete information storage and retrieval systems embodying advanced electronics, and machines ranging from their famous duplicators to those which frank letters and sign cheques.

### Products of the Group

Computer ancillary equipment

Continuous stationery

Electronic data retrieval systems

Electronic stencil cutters

Electrostatic copying machines

Filing systems

Mailroom equipment—machines for addressing, franking,  
folding, letter opening, sealing and inserting

#### United Kingdom Regional Offices

**London Regions and South West:**  
Roneo House  
Lansdowne Road Croydon  
Surrey CR9 2HA  
*Telephone* 01-686 4333

Roneo House  
North Circular Road  
Junction Waterloo Road  
Cricklewood London NW2  
*Telephone* 01-450 8022

Wine Street Bristol  
*Telephone* Bristol (0272) 294481  
F. Candlin *Regional Manager*

**Midland Region:**  
16 Hurst Street Birmingham 5  
*Telephone* 021-643 4665  
C. A. Keeble *Regional Manager*

**Northern Region:**  
131-133 Portland Street  
Manchester M1 4PU  
*Telephone* 061-236 4382

Roneo House Gelderd Lane Leeds 12  
*Telephone* Leeds (0532) 630474/5/6  
and 638127/8/9  
J. H. Mulgrew *Regional Manager*

**Scottish Region:**  
Roneo Vickers Centre  
Birkenshaw Industrial Estate  
Uddingston nr Glasgow  
*Telephone* Uddingston (069 881) 2944  
W. Simpson *Regional Manager*

#### Dartford Works

Hawley Road Dartford Kent  
*Telephone* 01-32 23477  
Medium sized, light to medium engineering works available for mass production runs of all types of steel furniture and office equipment. Design and research and development functions are available. Customers include the Department of the Environment, the office equipment section of industry, the Post Office, the Ministry of Defence.

A. W. C. Johnson *General Manager*  
and *Chairman of Local Board*

#### Romford Works

PO Box 3 South Street  
Romford Essex  
*Telephone* 01-70 46000  
Medium sized works for production of business machines and associated supplies. Also manufactures filing systems and has facilities for litho, offset and rotary printing.

P. M. Davidson BSc *General Manager*  
and *Chairman of Local Board*

#### Group Research and Development

Romford Works  
PO Box 3 South Street  
Romford Essex  
*Telephone* 01-70 46000  
P. J. Macleod BSc(Eng) *Technical Director*

#### Metchair Division

Hawley Road Dartford Kent  
*Telephone* 01-32 23477  
Mark Road Hemel Hempstead Herts  
*Telephone* 0442-54461

Medium sized chair manufacturing works available for mass production runs, also specialised office furniture including table tops and reception area furniture. Customers include the Department of the Environment, British Hovercraft Corporation, the office equipment section of industry, the Post Office, the Ministry of Defence.

J. R. Smith *Divisional Manager*

#### HIRST BUCKLEY LIMITED

Scissett Huddersfield Yorkshire  
*Telephone*  
Skelmanthorpe (048 486) 3411

The largest producer in the country of computer stationery, modern business method, banking and Giro forms. The bulk of the printing output is produced on bands of multi-web machines, more than half of which were custom-built to the company's own requirements.

H. Micklethwaite *Deputy Chairman*  
Subsidiary companies

Datacopy Limited Scissett  
Data-Flow Limited Scissett

#### LANGDON PRECISION ENGINEERS LIMITED

Stanhope Works 64/68 Stewarts Road  
Battersea London SW8  
*Telephone* 01-622 1251

Small works primarily engaged in the manufacture of Neopost franking machines.

W. J. Goodey *Manager*

**Computer ancillary equipment**

**Continuous stationery**

**Electronic data retrieval systems**

**Electronic stencil cutters**

**Electrostatic copying machines**

**Filing systems**

**Mailroom equipment—machines for addressing, franking, folding, letter opening, sealing and inserting**

**Office furniture and seating**

**Partitions**

**Recording systems**

**Security locking device**

**Stencil, spirit and offset duplicators and supplies**

**Electrostatic and plain paper copiers**

**Scottish Region:**

Roneo Vickers Centre  
Birkenshaw Industrial Estate  
Uddingston nr Glasgow  
*Telephone Uddingston (069 881) 2944*  
W. Simpson *Regional Manager*

P. J. Macleod *BSc(Eng) Technical Director*

**Metchair Division**

Hawley Road Dartford Kent  
*Telephone 01-32 23477*  
Mark Road Hemel Hempstead Herts  
*Telephone 0442-54461*

Stanhope Works 64/68 Stewarts Road  
Battersea London SW8  
*Telephone 01-622 1251*

Small works primarily engaged in the manufacture of Neopost franking machines.

W. J. Goodey *Manager*

**RONEO MAILROOM DIVISION**

Roneo House  
74 Upper Richmond Road  
Putney SW15 2SZ  
*Telephone 01-874 0404*  
*Telegraphic Address*  
Neopost London SW15  
Marketing of mailroom equipment.  
Neopost machines are in use all over the world.

W. H. Appleton *Managing Director*

**RONEO VICKERS PARTITIONS LIMITED**

Acornfield Road  
Kirkby Liverpool L33 7UX  
*Telephone 051-546 2050*  
*Telegraphic Address Rovipart Liverpool*  
Sales Office  
2 Union Road Croydon  
Surrey CR9 2HA  
*Telephone 01-686 4344*  
01-689 1542/3  
01-689 3495/6

The company produces all types of partitioning for commerce and industry, including specialised items such as toilet cubicles and desk enclosures.

D. P. J. Grant *AMBIM Managing Director*

Roneo-Neopost range of mailroom equipment.

M. Kister *Managing Director*

Branches at Bergen, Stavanger and Trondheim.

E. Lie *Managing Director*

M. M. Mian *General Manager*

**'HADewe' B.V.**

PO Box 20 Drachten Holland  
*Telephone Drachten 3641*  
*Telegraphic Address Hadewe Drachten*  
Small works manufacturing office folding machines, mail inserting machines and letter openers. Majority of output exported, particularly to North America. Roneo-Neopost responsible for marketing of Hadewe machines.

J. F. Gombault *Managing Director*



Roneo-Neopost franking machine

Office furniture and equipment



**BEDRIJFSMACHINE  
EXPLOITATIE NV**

Head Office  
Coolsingel 6-8 Rotterdam 3001  
Holland  
*Telephone 10-145911 Telex 23560*

Roneo Vickers Business Equipment  
Group sells Roneo duplicating machines  
and supplies in addition to being the  
agent for Victor calculators in Holland

M Van den Berge *Managing Director*

Subsidiary companies  
Assmann Kantoormachines BV  
Utrecht  
Daro Kantoormachines BV  
Amsterdam  
Roneo Kantoormachines BV  
Utrecht  
Victor Kantoormachines BV  
Rotterdam



870 Duplicator

Recording systems

**COMPAGNIE DU RONEO S.A.**

Head Office 21 Avenue Victor Hugo  
Paris 16e France  
*Telephones 553 56 70 & 553 77 94*  
*Telegrams and Cables Roneo Paris*  
*Telex 61873*

Manufactures and markets office  
furniture, business systems, business  
machines and partitioning. The main  
factory at Noyon, is one of the most  
up-to-date steel furniture factories in  
Europe. Other factories are at Les Lilas  
and in Algeria. Regional sales offices  
in most major cities in France.

J. Dupuis *Director General*



**ANTONIO CORONA S.p.A.**

22070 Veniano Como Italy  
*Telephone 031 930572*  
Manufacturing unit engaged in the  
production of spirit duplicators  
A. Corona *Managing Director*

**ERTMA S.A.**

1 Clos de la Fonderie CH  
1227 Carouge Geneva Switzerland  
*Telephones (022) 42 02 20 & 42 02 29*  
*Telegraphic Address Ertmaza Genève*  
*Telex 27521*

Ertma manufactures inserting  
machines which are part of the  
Roneo-Neopost range of mailroom  
equipment.

M. Kister *Managing Director*

**'HADWE' B.V.**

PO Box 20 Drachten Holland  
*Telephone Drachten 3641*  
*Telegraphic Address Hadewe Drachten*  
Small works manufacturing office  
folding machines, mail inserting  
machines and letter openers. Majority  
of output exported, particularly to  
North America. Roneo-Neopost  
responsible for marketing of Hadewe  
machines.

J. F. Gombault *Managing Director*

*Roneo-Neopost franking machine*

*Office furniture and equipment*

**RONEO VICKERS INDIA  
LIMITED**

PO Box 3011 184 Jor Bagh  
New Delhi 3  
*Telephone 618467*  
*Telegraphic Address*  
Roneovick New Delhi 3  
Branches at Bangalore, Bombay,  
Calcutta, Cochin, Hyderabad, Madras.  
S. P. Ahooja MA *Managing Director*

**RONEO VICKERS NORGE A/S**

Grensen 16 Oslo 1  
*Telephone Oslo 33 53 73*  
*Telegraphic Address Roneo Oslo*  
Branches at Bergen, Stavanger and  
Trondheim.

E. Lie *Managing Director*



**RONEO VICKERS SVENSKA, AB**

Brunnbyvagen 15 Arsta/Stockholm  
*Postal Address Box 9043 12109*  
Johanneshov 9  
*Telephone 81 04 20*  
*Telegraphic Address*  
Roneovicks Stockholm  
L. Andersson *General Manager*

**RONEO VICKERS LIMITED**

610 Qamar House Bunder Road  
PO Box 4501 Karachi  
*Telephone 233316*  
*Telegraphic Address Roneokar*  
Branches at Lahore and Rawalpindi  
M. M. Mian *General Manager*

# The Anatomy of Vickers

2 Engineering

Office  
3 Equipment

4 Howson-  
Algraphy  
& OTHER UK COMPANIES

Overseas  
5 Companies

## VICKERS LIMITED ENGINEERING GROUP

PO Box 55 South Marston Swindon Wilts  
Telephone Stratton St Margaret (079382) 3241  
Telegraphic Address Vicmarston Swindon Telex  
Telex 44317

### Board

J. R. Hedin CEng FIProdE Chairman  
W. C. P. McKie  
R. F. C. Butler MA CEng MIERE AFRAeS AMBIM Managing Director Vickers Medical Engineering  
C. V. Chester-Browne BSc(Eng) CEng MIMechE Technical Director  
K. R. Hoskins CEng FIMechE Managing Director Crabtree-Vickers Division  
J. A. Killick CEng FIMechE Chairman Elswick Works Local Board and Managing Director Armament Division North East  
L. C. Libby MBE CEng FIEE Chairman Crayford Works Local Board and Managing Director South Marston Works  
D. R. Micklem Director of Marketing and Sales  
W. Richardson Chairman Michell Bearings Local Board and Managing Director  
H. J. Rodger Commercial Director  
A. W. Taylor CEng MIMechE MIProdE Chairman Scotswood Works Local Board and Managing Director  
W. M. Windsor Managing Director Crayford Works

'Heavy' engineering has long been an important Vickers activity with products ranging from malting and bottling plants to power presses, but the Group also manufactures many products at the lighter end of engineering, such as hardness testing machines and a metric conversion drum. It pushes ahead into new fields - for example, in medical engineering, in tyre testing equipment, in triodetic construction and in refuse disposal equipment - and maintains its reputation as a designer and maker of armoured fighting vehicles, including the Vickers Main Battle Tank.

### CRAYFORD WORKS

Crayford Dartford Kent DA1 4AX  
Telephone Crayford 26222  
Telegrams and Cablegrams  
Vicksereng Crayford  
Telex 22545

A medium-to-light engineering works with three main divisions.  
Bottling Equipment Division has design and manufacturing facilities

both at Crayford and at Vickers-Vanderveeten SA of Brussels, Belgium. Container and Packaging Machinery Division supplies a wide range of equipment to the packaging industry including the famous Vickers wire sticher. The Division also produces the Vickers Hardness Testing Machine and the Vickers Inch/Metric Conversion Unit for machine tools as well as work of a general nature to customers'

specifications. Armament Division specialises in weapon and fire control systems and suspension and release mechanisms for aircraft.

L. C. Libby MBE CEng FIEE  
Chairman Local Board  
W. M. Windsor Managing Director

**Kirby's (Engineers) Limited**  
PO Box 74 Pool Street Walsall Staffs WS1 2EW

Telephone Walsall (0922) 25688  
Telegrams Kirby's Walsall  
Telex 338259

Suppliers and manufacturers, in conjunction with Vickers Crayford Works of machinery for the corrugated and solid board box-making industry (Kirby-Vickers Container Machinery).  
W. M. Windsor Chairman  
R. C. White Managing Director

**Vickers-Vanderveeten SA**  
253-257 Rue de Birmingham 1070

Brussels 7 Belgium  
Telephone 02 214228/214220/225685  
Telegraphic Address 'Pratique Brussels'  
K. McC. Cowan Chairman and Managing Director  
M. Vanderveeten Director-in-charge

### ELSWICK WORKS

Newcastle upon Tyne NE99 1CP  
Telephone 0632 38888

Telegrams Vicastrong  
Newcastle upon Tyne  
Telex 53104 Vickers Ntyne  
Armament Division North East  
Foundry Division  
Non-Ferrous Metals Division  
Pressings Division

Extensive manufacturing shops undertake production of medium and heavy general engineering items, as well as the complete manufacture of Armoured Fighting Vehicles. These activities are backed-up by full design, development, quality assurance and computer services. Other facilities include one of the country's largest Iron Foundries, a sheet metal Pressings Division, and comprehensive Non-Ferrous Metals manufacturing.  
J. A. Killick CEng FIMechE  
Chairman Elswick Works Local Board and Managing Director Armament Division North East.

### MICHELL BEARINGS

Scotswood Road  
Newcastle upon Tyne NE15 6LL  
Telephone 0632 30291/8  
Telegraphic Address  
Michbearo Newcastle upon Tyne  
Telex 53397

Designers and manufacturers of oil film lubricated, white metal lined thrust and journal tilting pad and plain bearings for marine and land applications. Facilities include extensive machine and fitting shops, white metalling and pattern making.  
W. Richardson Chairman Local Board and Managing Director

### SCOTSWOOD WORKS

Newcastle upon Tyne NE99 1TE  
Telephone 0632 38888  
Telex 53227 Vicscot Ntyne  
Principally manufacturers of heavy-duty power presses and Paceco container handling cranes of various types.  
L. C. Libby MBE CEng FIEE  
Managing Director (and Chairman Crayford Works Local Board)

It also has comprehensive facilities for general engineering work and the building of special-purpose machinery.

A. W. Taylor CEng MIMechE MIProdE Chairman Local Board and Managing Director

### SOUTH MARSTON WORKS

Swindon Wiltshire  
Telephone 079 382 3241  
Telegrams Vicmarston Swindon Telex  
Telex 44317

Design and Procurement Division (PO Box 44)  
Boby Malting Plant  
Hydraulics Division (PO Box 8)  
Nuclear Engineering Division (PO Box 33)

Production shops are equipped and staffed to handle light and medium engineering work in ferrous and non-ferrous materials. One-off, small batch and quantity production runs can be accommodated. The works inspection and testing services control every phase of production, operating in accordance with recognised government and national approvals and standards, and provide full Public Test House facilities. Additionally, the works undertake major engineering projects, from the initial design concept to final installation and commissioning, including the management of all construction work. South Marston provides the main production facilities for Medical Engineering.

## **CRABTREE-VICKERS DIVISION**

Head Office Water Lane Leeds LS11 5TN  
Telephone Leeds (0532) 38121 Cables Crabpres Leeds Telex 55151

### **Divisional Board**

J. R. Hedin CEng FIPProdE *Chairman*  
K. R. Hoskins CEng FIMechE *Managing Director and Chief Executive*  
D. G. Allan CA *Commercial Director*  
P. G. E. Faire *Marketing Director*  
J. M. Harper BSc(Eng) MSc *Production Director*  
D. A. Stevenson MIOP *Technical Director*

The Division responsible for Vickers printing machinery interests. It has two main product groups - web-fed and sheet-fed machinery with manufacturing units in Leeds, Otley and Gateshead.

The web-fed section manufactures rotary letterpress and web-offset presses for printing newspapers, magazines, directories and other publications.

The sheet-fed section manufactures single colour and multi-colour sheet-fed offset presses for all kinds of commercial or specialised printing work on paper or board.

### **Works**

Water Lane Leeds LS11 5TN  
Telephone Leeds (0532) 38121  
Cables Crabpres Leeds Telex 55151  
South Accommodation Road  
Hunslet Leeds LS10 1PX  
Telephone Leeds (0532) 36181  
Cables Crabpres Leeds Telex 557266  
Burrs Lane Otley LS21 1QP  
Telephone Otley (094 34) 2275  
and 2254  
Cables Crabpres Otley  
Team Valley Gateshead NE11 0SU  
Telephone Gateshead (0632) 875071  
Cables Crabpres Gateshead  
Telex 53105

### **London Office**

105 Borough Road London SE1 0AB  
Telephone 01-928 7401  
Cables Crabpres London Telex 22662

### **Service Departments**

Water Lane Leeds LS11 5TN  
Telephone Leeds (0532) 38121  
Cables Crabpres Leeds Telex 55151  
105 Borough Road London SE1 0AB  
Telephone 01-928 7401  
Cables Crabpres London Telex 22662

For further Overseas offices  
see sheets 5-6

## **Products of the Group**

### **Aircraft components**

### **Armaments**

**Bearings:** white metal for industrial and marine applications

**Bottling equipment for beer and (carbonated) soft drinks**

**Butter handling/packing lines**

**Castings, iron**

**Container handling cranes**

**Conversion drums inch/metric for machine tools**

**Forgings**

**Gears and gear boxes**

**Generator main connections ('bus bars') for power stations**

**Hardness testing machines**

**Hydraulic controls and servo systems**

**Hydraulic pumps and motors**

**Malting plant including complete installations**

**Non-ferrous rolled plate, sheet, strip; solid and hollow extrusions**

**Nuclear irradiation rigs, loops**

**Nuclear power station components**

**Packaging machinery; paper and board handling and converting equipment, wire stitchers and gluers**

**Power presses**

**Pressings**

**Refuse processing plant**

**Rotary calcinators, dryers, mills**

**Steel mill machinery**

**Tyre testing equipment**

**Variable speed drives, oil operated**

### **CRABTREE-VICKERS**

**Web-fed rotary letterpress and offset presses, folders and reelstands.**

**Conveyors, stackers and other publishing room equipment.**

**Sheet-fed single and multi-colour offset presses, perfectors and combination presses.**

**Metal decorating presses, coating machines, sheet metal feeders, oven unloaders and stackers, and other sheet metal handling equipment.**

**Die stamping presses.**

### **MEDICAL ENGINEERING**

**Barrier nursing, isolation, hyperbaric and oxygen therapy systems, infant incubators, organ storage systems and resuscitation equipment**

**Automated biochemistry systems**

**Disinfection unit**

**Inflatable splints**

**Auto-tape system**

## **MEDICAL ENGINEERING**

Basingstoke Office and Works  
Priestley Road Basingstoke Hants  
Telephone Basingstoke (0256) 29141  
Cablegrams 'Vickers Basingstoke'  
Telex 85697

### **Regional Offices, Service Depots**

186 Lisburn Road Belfast BT9 6AL  
Telephone Belfast (0232) 669266

480 Chester Road Sutton Coldfield  
Warwickshire B73 5BP  
Telephone 021-373 1653

594 Bath Road Bristol BS4 3LE  
Telephone Bristol (0272) 77677

57 Charleston Road Ranelagh Dublin 6  
Telephone Dublin (0001) 975755  
35 Westbourne Gardens Glasgow  
G12 9PF  
Telephone 041-339 2945

Park Farm Industrial Estate  
Westland Road Leeds LS11 5XA  
Telephone Leeds (0532) 700344  
Unit 3 49-55 Gorst Road London  
NW10 6LB  
Telephone 01-965 7635

Skelton Road Deansgate Lane  
Altrincham Cheshire  
Telephone 061-928 8118

16 Otterburn Terrace Jesmond  
Newcastle upon Tyne NE23 AP  
Telephone 0632 810071

The Division has its headquarters, development and marketing organisation at Basingstoke, where production is limited mainly to the manufacture of oxygen therapy products. Other products are manufactured at South Marston.  
R. F. C. Butler *Managing Director*

# The Anatomy of VICKERS

1 Shipbuilding

2 Engineering

Office  
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4 Howson-  
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& OTHER UK COMPANIES

Overseas  
5 Companies

## VICKERS LIMITED SHIPBUILDING GROUP

PO Box 177 Vickers House Millbank Tower Millbank London SW1P 4RA  
*Telephone 01-828 7777 Telegrams Vickers London*  
*Telex Cablegram Vickers London SW1 Telex 27921*

### Board

Sir Leonard Redshaw MEng CEng FRINA FWI *Chairman*  
W. Richardson CEng FRINA *Managing Director Vickers Limited Shipbuilding Group and General Manager, Barrow Works*  
W. Parnell CEng FRINA *Deputy General Manager and Director Barrow Shipbuilding Works*  
T. K. Postlethwaite FIWM *General Manager and Director Barrow Engineering Works*  
W. A. Till FCA *Commercial Director*  
W. P. Walker CEng MRINA *Vice-Chairman Brown Brothers Company Limited*  
A. L. White OBE CEng FRINA *Director in charge of Industrial Relations*

At Barrow-in-Furness, which will become part of the new county of Cumbria in 1974, Vickers has one of Britain's biggest shipbuilding facilities and builds some of the world's most sophisticated ships. Proud of its clear lead in design capability and experience, Barrow is the sole supplier of nuclear powered submarines for the Royal Navy; the 'lead yard' in the construction of Type 42 destroyers for the Royal Navy and has laid down HMS *Invincible*, the first of the new Command cruisers. The yard is building two Type 42 guided missile destroyers for the Royal Navy. Overseas orders form an important part of Barrow's output and Vickers Shipbuilding Group gained the Queen's Award to Industry in 1973 for export achievement.



### BARROW SHIPBUILDING AND ENGINEERING WORKS

Barrow-in-Furness Lancashire

#### Shipbuilding Works

*Telephone Barrow-in-Furness 20351  
Telegrams & Cables  
Vicarmsea Barrow-in-Furness  
Telex 65171*

Five berths ranging in size from 1,000 feet in length to 400 feet and including one 810 feet by 100 feet. Annual capacity 80,000 tons per annum. Liners up to 45,000 tons gross and Tankers up to 160,000 tons deadweight. Specialist design facilities covering ships and propulsion machinery – steam diesel and nuclear – and heating and ventilation systems.

A shipbuilding works was established at Barrow-in-Furness in 1871 by the Barrow Shipbuilding Company. Became the Naval Construction and Armaments Company in 1888 and Vickers Sons and Maxim in 1897. It built the Royal Navy's first submarines in 1901-2 and became Vickers Limited in 1911. Private airfield – Walney Island  
W. Parnell CEng FRINA  
*Deputy General Manager.*

*Pre-launch photograph of ARA Hercules at Barrow Shipyard*

### Engineering Works

*Telephone Barrow-in-Furness 23366  
Telegrams  
Vickerseng Barrow-in-Furness  
Telex 65197*

Armament Division  
Manufacturing Division  
Mechanical Engineering Division

The engineering works is a large versatile medium-to-heavy plant for either 'one-off' or assembly line production. There are exceptional craneage handling and test facilities; extensive design offices and an Engineering Development Department. Products include water tube boilers which can be supplied individually or as complete installations; nuclear power plant for propulsion purposes; side thrust marine propulsion units; all types of precision gearing including epicyclic gears; castings in non-ferrous alloys; valves and ancillary equipment; and fabricated pressure vessels.

Private airfield – Walney Island  
T. K. Postlethwaite FIWM  
*General Manager*

### Compact Orbital Gear Works

Rhayader Radnorshire Wales  
*Telephone Rhayader (059 782) 247  
Telex COG Rhayader 35257  
Epicyclic Gears  
R. J. Hicks General Manager*

### Slingsby Sailplanes

Kirkbymoorside Yorkshire YO6 6EZ  
*Telephone  
Kirkbymoorside (0751) 31751  
Telex 57911*

Manufacturers of the T53 two-seater trainer; the Kestrel, a high performance single-seater and the Falke, a powered two-seater – the two last under licence from West German companies. The Works also has a section devoted to the manufacture of glass fibre stressed structures that can be used in shipbuilding and the marine environment.  
G. E. Burton BSc ARCS *Managing Director*

### Vickers Oceanics Limited

P.O. Box 8 Cavendish Park  
Barrow-in-Furness Lancashire  
*Telephone Barrow-in-Furness 25080  
Telegrams Oceanics Barrow  
Telex 65147*

Oceanographic research. Ships and submersibles available for charter.  
G. G. Mott BMechE CEng FRINA  
*Chief Executive and Managing Director*

## HEBBURN WORKS

Hebburn County Durham  
Telephone Hebburn (0632) 83 2311

### Galvanizing and Gritblasting Division

Extensive capacity for galvanizing, gritblasting, metal spraying and coating and other anti-corrosive applications. A galvanizing bath 56' x 16' x 8' 3" (zinc capacity 1,100 tons) can accommodate steel work larger and heavier than any other in UK and there are other large and smaller baths for galvanizing.

R. Moore Manager



*The Vickers SLAM  
(Submarine or surface-launched air missile)  
system*

## SHIP MODEL EXPERIMENT

### TANKS

222 London Road St Albans Herts  
Telephone Park Street (0727) 50761  
Telex 23959

Glasgow Road Dumbarton Scotland  
G82 1QZ  
Telephone Dumbarton (0389) 3444  
Telex 778089

Two tanks available, one at St Albans (length 376' 6" full depth x 20' 10" wide x 11' 3" mean depth) with wavemaker and carriage speed up to 17.5 feet per second and one at Dumbarton (length 300' full depth

x 22' 4" wide x 8' 9" mean depth) with carriage speed up to 30 feet per second. Make models of any type of ship or submerged or floating body to the design of a builder or owner and test in still water or regular (mathematical) or irregular waves to provide predictions of propulsive performance during measured mile trials or at sea, and of motions, bending movements, wetness etc at sea. Also stream flow studies and wake surveys and manoeuvring experiments. Design to internal or external order of hull forms and all appendages including bossings and rudders and propellers. Theoretical and analytical studies and statistical analyses of all factors affecting ship performance. Fully instrumented full-scale trials on measured mile or at sea to internal or external order.

Design and manufacture of electronic and mechanical instruments for use at sea or in laboratory.

D. I. Moor Bsc CEng FRINA  
Superintendent and Local Director

## BROWN BROTHERS & COMPANY LIMITED

Rosebank Iron Works  
Broughton Road Edinburgh EH7 4LF  
Telephone 031-556 2440  
Telegrams Hydraulic Edinburgh  
Telex 72151

Marine and general engineers  
W. P. Walker Executive Vice-Chairman

## Products of the Group

**Armaments: Naval**

**Buoyancy material**

**Castings, non-ferrous**

**Consultancy services: Ship design; Weapon systems;  
Ship hydrodynamics**

**Design and procurement services**

**Gearing: precision marine and industrial**

**Heating and Ventilation systems**

**Manufacture in reinforced plastics**

**Orbital gears**

**Oceanography and underwater engineering:  
Ships and submersibles available for charter**

**Propulsion machinery: Nuclear, diesel and steam**

**Sailplanes and GRP stressed structures**

**Shipbuilding: Bulk and liquefied gas carriers; Passenger liners;  
Container and special cargo ships; Ferries, passenger and vehicle;  
Warships, surface and submarine; Repairs, conversions, refits**

**Ship model testing**

**Transverse propulsion units**



# The Anatomy of VICKERS

1 Shipbuilding

2 Engineering

Office  
3 Equipment

4 Howson-  
Algraphy  
& OTHER UK COMPANIES

Overseas  
5 Companies

## Key facts about Vickers

<b>Owners</b>	Some 60,000 stockholders of whom some 54,000 hold £1,000 stock or less.
<b>Employees</b>	Last total (end 1972) some 39,000 of which UK 30,688.
<b>Activities</b>	Shipbuilding; Engineering; Office Equipment (Roneo Vickers); Lithographic Plates and allied products (Howson-Algraphy); Printing Machinery (Crabtree-Vickers);
<b>External Sales</b>	£174 million (1972).
<b>Assets Employed</b>	£116.2 million.
<b>Location</b>	In addition to works throughout the UK, Vickers has important manufacturing companies in other parts of the world. Roneo Vickers has factories in France, Algeria, Holland, India, Italy, South Africa and Switzerland, and Howson-Algraphy has factories in Holland, Italy and Spain. In Australia there are major Vickers engineering works at Melbourne and Perth, and Vickers has the Cockatoo Island Dockyard at Sydney. At Montreal Canadian Vickers has a large engineering works and ship repair yards.
<b>Training</b>	Full-time training officers and staff at all major establishments and training schools at the principal locations.
<b>Associated Companies</b>	British Aircraft Corporation (Holdings) Ltd (50 per cent) London. ACC-Vickers-Babcock Ltd (24.9 per cent) India. Barber-Greene England Ltd (49 per cent) Bury St Edmunds.

## Ownership of Vickers

### Analysis of Ordinary Stockholders (end 1972)

Category	Number	%	Holding	%
Individuals	44,619	94.5	£19,664,781	45.0
Banks and Nominee Companies	1,575	3.3	8,407,574	19.2
Investment Companies	245	0.5	2,187,435	5.0
Insurance Companies	139	0.3	7,524,425	17.2
Other Companies	453	1.0	3,015,514	6.9
Pension Funds	84	0.2	2,570,576	5.9
Universities, Schools and other Corporate Bodies	78	0.2	369,882	0.8
	47,193	100	£43,740,187	100

Size of Holding £	Number	%	Holding	%
1-200	20,125	42.6	£2,467,169	5.6
201-400	12,121	25.7	3,625,060	8.3
401-600	6,548	13.9	3,318,761	7.6
601-1,000	4,700	10.0	3,949,995	9.0
1,001-20,000	3,508	7.4	9,309,996	21.3
20,001-50,000	91	0.2	2,878,840	6.6
50,001-100,000	45	0.1	3,425,552	7.8
Over 100,000	55	0.1	14,764,814	33.8
	47,193	100	£43,740,187	100

# Structure of Management

In the management of any large multi-product group one of the principal problems is to achieve the right balance between authority and control at the centre and the freedom of operating units to undertake responsibility for running their business profitably without undue interference from the centre. Clearly the Board, and in particular the Chief Executive, must be answerable for the overall policy and results of the Group, and there must therefore be a clear line of responsibility from all operating units to the Chief Executive. The Chief Executive must also have at his command at the centre the machinery and expertise necessary for him to plan ahead and monitor performance effectively.

In Vickers the main segments of product activity are – shipbuilding, engineering, office equipment, printing machinery and supplies, and the overseas manufacturing units in Australia and Canada. The general principle is that each major group in the United Kingdom has a chief executive who is answerable for the conduct of his group's activities. In carrying out these responsibilities he is aided by a board or boards, comprising the

principal executives of his group. It is he, however, who is directly answerable to the Chief Executive of Vickers Limited – the Managing Director – for the efficient conduct of the business. His line of responsibility to the Managing Director is both direct and through membership of the Executive Committee of Vickers Limited which operates under the chairmanship of the Managing Director.

The main instruments of central control are financial and the making of senior executive appointments. Each operating group is required to produce an annual management plan and monthly financial reports and forecasts. The annual plan as originally submitted is examined in detail at Vickers House and then discussed with the responsible management. From this discussion a final agreed plan emerges and it is against these facts and figures that progress is then monitored monthly. Part of the management plans, but considered separately also, are proposals for capital expenditure and for expenditure on development projects. Also incorporated in each of the plans is a section on longer-term strategy.

Headquarters' approval is required for major contracts and a further headquarters' function is to assist the operating groups in legal matters and in drawing up major contracts.

In personnel matters there is central co-ordination of policy in relation to recruitment, training, conditions of service and career development.

The companies in Australia and Canada are not wholly-owned subsidiaries, but Vickers has majority shareholdings and the procedure of submitting annual plans and monthly forecasts is followed as with the UK groups. The companies have their own boards which include non-executive directors and carry statutory responsibilities under Australian and Canadian law. The Managing Director of Vickers Limited is a member of the Board of both the Australian holding company (itself wholly owned) and Canadian Vickers Limited.

Ultimately, of course, responsibility for the policies and performance of Vickers Limited as a whole rests with the Board in London. The Vickers



*The main boardroom at Vickers House*

Board includes both executive and non-executive members. In the past the Chairman has usually been executive, but since the appointment of Peter Matthews as Managing Director and Chief Executive in September 1970, the office of Chairman

has been non-executive. It is now held by Lord Robens. The non-executive members are all businessmen distinguished in their own fields and bringing to Vickers the benefit of their particular experience and expertise.

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## Directors

### BOARD

**Lord Robens Chairman**

\***P. A. Matthews Managing Director**

\***Sir Leonard Redshaw Assistant Managing Director**

**E. O. Faulkner**

**\*C. W. Foreman**

**\*D. J. Groom**

**\*J. R. Hendir**

**\*W. C. P. McKie**

**Colonel A. T. Maxwell**

**D. L. Pollock**

**J. Martin Ritchie**

**R. P. H. Yapp**

*\*Full-time executive directors*

**Secretary**

**H. E. Scrope**

*Adviser on Public Relations to the Board*

**Sir Harold Evans Bart**

### Biographical notes

#### CHAIRMAN

**The Rt. Hon. Lord Robens of Woldingham PC DCL LLD**  
Chairman (non-executive) from 3 June 1971, having joined Board in March. Previously Chairman of the National Coal Board since 1961. Chancellor, University of Surrey, since 1966. A Director, Bank of England since 1966 and of Times Newspapers Limited since 1967. Member of National Economic Development Council since 1962. Chairman, Johnson Matthey & Co. Ltd. 1971. Member of Parliament 1945 to 1960, holding various ministerial posts, including Minister of Labour and National Service. Publications include *Human Engineering 1970* and *Ten Year Stint*. Born December 1910.

#### MANAGING DIRECTOR AND CHIEF EXECUTIVE

#### P. A. Matthews

Joined Vickers as Managing Director and Chief Executive in September 1970. A Director of British Aircraft Corporation (Holdings) Limited. Also a non-executive Deputy Chairman of the British Steel Corporation since September 1973. Served with Royal Engineers 1941-46. Joined Stewarts & Lloyds Limited

### EXECUTIVE COMMITTEE

**P. A. Matthews** *Chief Executive*

**Sir Leonard Redshaw** *Chairman Shipbuilding Group*

**Sir Harold Evans Bart** *Adviser on Public Relations to the Board*

**C. W. Foreman** *Director of Finance*

**D. J. Groom** *Chairman Roneo Vickers Office Equipment Group*

**J. R. Hendir** *Chairman Engineering Group*

**W. C. P. McKie** *Director of Contracts*

**H. E. Scrope** *Secretary*

**R. O. Taylor** *Deputy Chairman Howson-Algraphy Group*

*In addition*

J. E. Harrington MEIC MCSCE President and Chief Executive Officer of Canadian Vickers Limited and P. D. Scott Maxwell DSC CEng FIMechE Managing Director of Vickers Australia Limited when they are in the United Kingdom attend meetings of the Executive Committee.

1946 and held works, sales and technical appointments before joining Board as Director of Research and Development with special responsibility for planning and development engineering.

Following the nationalisation of the steel industry in 1967 he became Member for Research of the British Steel Corporation and later Managing Director, Operations and Supplies. Member of the Council of the CBI

and Chairman of its Research and Technology Committee, Member of the British Overseas Trade Board and of the Export Guarantees Advisory Council, Fellow of the British Institute of Management, a Vice-President of the Engineering Employers Federation, and Member of the Council of the Iron and Steel Institute.  
Born September 1922. Educated Shawnigan Lake School (British Columbia) and Oundle School.

## EXECUTIVE DIRECTORS

### Sir Leonard Redshaw MEng CEng FRINA FWI

Assistant Managing Director of Vickers Limited and Chairman of Shipbuilding Group since 1968. Previously Managing Director, Shipbuilding Group (also Builders' Chief Polaris Executive). Appointed to Vickers Board in 1967, having been a Special Director since 1965. A Director of Rolls-Royce & Associates Limited and Shipbuilding Corporation Limited. Past President Shipbuilders and Repairers National Association. A past President of the Institute of Welding. Born April 1911. Educated Barrow Grammar School and Liverpool University (First Class Honours in Naval Architecture). Knighted for services to export 1972.

### C. W. Foreman CA

Director of Finance. Joined Vickers in October 1970. Mr. Foreman served articles in Edinburgh, and moved to London to join The British Printing Corporation Limited in 1964, becoming Corporation Chief Accountant in 1969. Born 1937. Educated at the Royal Grammar School, Newcastle upon Tyne, and George Watson's Boys' College, Edinburgh.

### D. J. Groom FCA

Joined Vickers in 1971 from Rio Tinto Zinc Corporation Limited where he was Joint Head of Group Planning

Department. Previously Financial Adviser to the Premier of Newfoundland and Deputy Minister of Finance for the Newfoundland Government. He was articled with (then) Deloitte, Plender, Griffiths, Annan & Co. in Rhodesia and joined Cooper Brothers & Company in London in 1959 becoming a partner in 1964. Born 1933. Educated in Rhodesia and took a Bachelor of Commerce degree at the University of Cape Town where he was also a rowing Blue.

### J. R. Hedin CEng FIProDE

Appointed to the Board June 1972. Mr. Hedin has been Managing Director of Vickers Engineering Group since September 1970. Appointed Chairman of that Group June 1972. He joined Vickers as an apprentice at Elswick Works, Newcastle upon Tyne in 1934. He held senior production and sales posts in Newcastle and London, and was appointed a Special Director of Vickers-Armstrongs Limited in 1955. He became Deputy General Manager of both Elswick and Scotswood Works, Newcastle, and in 1964 went to South Marston Works, first as Director and General Manager, and then as Managing Director. He is a former Council Member of the Institute of Production Engineers. Born March 1916. Educated at Glasgow Academy and Rossall.

### W. C. P. McKie

Appointed to the Board June 1972. Mr. McKie came to Vickers in 1969 from the British Steel Corporation where he was Director, Administration, Northern and Tubes Group, having previously been Secretary of Stewarts and Lloyds. Born January 1932. Educated at Kilmarnock Academy and Glasgow University. Admitted as a Solicitor in Scotland and England.

## NON-EXECUTIVE DIRECTORS

### E. O. Faulkner MBE

Chairman of Lloyds Bank Limited. Previously Chairman of (then) Glyn, Mills & Co. Joined the Board of Vickers in 1957. Director of Hudson's Bay Company, National and Commercial Banking Group Limited and Bank of London & South America Limited. War service 1939-45 (commanded 91 Field Regiment RA). Born April 1914, Educated Bradford and Corpus Christi College, Cambridge.

### Colonel A. T. Maxwell TD

Director of Australia and New Zealand Banking Group Limited and of Alliance Investment Company Limited. Joined the Board of Vickers in 1934. Formerly Deputy Chairman International Computers (Holdings) Limited, having been Chairman of International Computers and Tabulators Limited and previously Chairman of Powers-Samas Accounting Machines Limited. War service included General Staff AFHQ and Deputy Chief, Military Government Section. Born January 1905. Educated Rugby and Trinity College, Oxford.

### D. L. Pollock

Director of S. Pearson & Son Limited. Director of Legal and General Assurance Society Limited and of National Westminster Bank Limited. Joined the Board of Vickers in 1954. Solicitor. War service 1939-45 with RNVR. Born July 1906. Educated Marlborough College and Trinity College, Cambridge.

### J. Martin Ritchie

Joined Vickers Board July 1970. Andrew Ritchie and Son Limited 1934. War Service 1939-45, including DA & AQMG, MEF, Middle East 1944-45 (Major). Rejoined Andrew Ritchie and Son Limited, then part of Eburite Organisation, and became Managing Director in 1950. Eburite became part of the Bowater Organisation in 1956. General Manager Bowater Eburite Limited. Appointed to the Board of Bowaters in 1959. Chairman and Chief Executive of The Bowater Corporation Limited until February 1973. Director of British Railways (Southern) Board 1969-1971 and London Weekend Television 1969-1971. Born May 1917. Educated Strathallan School, Perthshire.

### R. P. H. Yapp

Joined Vickers in 1931. Member of the Board since 1958. Director of Administration 1959, Director of Finance and Contracts 1962. Assistant Managing Director 1965. Managing Director 1968. A Director of British Aircraft Corporation (Holdings) Limited. Chairman of CBI Committee on State Intervention in Private Industry. Mr. Yapp's father and grandfather also served with Vickers. His father, Sir Frederick Yapp, was Chairman of Vickers-Armstrongs Limited. Born June 1908. Educated St. Paul's School, London.

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Working for Vickers

# Introduction

For more than 150 years Vickers has been a top name in British industry. The Company began in steel. It added engineering, shipbuilding and armaments in the decades leading up to 1900. Early in this century it became a major aircraft manufacturer as well.

But needs and circumstances change. Vickers aircraft designers and builders, whose achievements after the war included the Viscount and the VC10, became part of the British Aircraft Corporation which Vickers now owns jointly with GEC.

In 1967 Vickers steel makers were nationalised.

The shipbuilders and the engineers remained – each leaders in their field – but Vickers had to find additional new outlets for its skills.

Within a decade Vickers has taken a new shape. Alongside shipbuilding and engineering it has built up the Roneo Vickers office equipment group, a major position in the printing machinery industry through Crabtree-Vickers, and a world business in lithographic plates through Howson-Algraphy. In addition, significant positions have been established in activities such as oceanics and medical engineering.

Overseas, Vickers has an important manufacturing presence in Australia and Canada and, in Europe, manufacturing and sales companies have been established by Roneo Vickers, Howson-Algraphy and the Engineering Group.

In 1973 both the Shipbuilding Group and Howson-Algraphy won The Queen's Award for outstanding export performance.

The name "Vickers" is now, as it was 100 years ago, a hallmark of high achievement in British industry.

October, 1973

Vickers Limited PO Box 177 Vickers House Millbank Tower Millbank London SW1P 4RA Telephone 01-828 7777

## Introducción

Desde hace más de 150 años, Vickers ha sido un nombre prominente en la industria británica. La Compañía empezó con el acero, al que añadió luego la ingeniería, la construcción naval y los armamentos, ya en las décadas anteriores a 1900. A principios del siglo, pasó a ser una importantísima empresa de construcción aeronáutica.

Pero las exigencias y las circunstancias van cambiando. Los proyectistas y constructores de aviones de Vickers – en cuyas realizaciones se incluyen al Viscount y al VC10 de la postguerra – pasaron a formar parte de la British Aircraft Corporation, actualmente propiedad conjunta de Vickers y G.E.C.

En 1967 la fabricación de acero de Vickers fue nacionalizada.

Permanecieron en la empresa los ramos de construcción naval y de ingeniería, cada uno prominente en sí mismo, pero fue preciso hallar nuevas perspectivas en Vickers para su pericia.

En el plazo de diez años, Vickers ha tomado nueva forma. A la par que se dedica a la construcción naval y a la ingeniería, ha desarrollado además las actividades del grupo Roneo Vickers de equipo para oficina y ha creado una posición importante en la industria de maquinaria para las artes gráficas por medio de Crabtree-Vickers, y un comercio mundial en placas litográficas a través de Howson-Algraphy. Adicionalmente, se han afirmado posiciones importantes en tales actividades como oceanografía y tecnología médica.

En el extranjero, Vickers hace sentir su presencia en Australia y el Canadá en cuanto a construcción respecta mientras que en Europa se han establecido empresas de producción y de ventas a cargo de Roneo Vickers, Howson-Algraphy y el Grupo de Ingeniería.

En 1973 el Grupo de Construcción Naval y Howson-Algraphy obtuvieron la Adjudicación Real por su notable actuación en las exportaciones.

El nombre de "Vickers" constituye actualmente, como lo fue hace un siglo, la marca de garantía en las grandes realizaciones de la industria británica.

## Einleitung

Seit über 150 Jahren hat der Name Vickers in der britischen Industrie einen guten Klang. Das Unternehmen begann ursprünglich in der Stahlindustrie und dehnte sich in den letzten Jahrzehnten vor der Jahrhundertwende auf die Gebiete Maschinenbau, Schiffsbau und Waffen aus. Zu Beginn dieses Jahrhunderts wurde Vickers außerdem ein bedeutender Flugzeughersteller.

Doch Erfordernisse und Umstände ändern sich. Der Unternehmenszweig Flugzeugkonstruktion und -bau, zu dessen Nachkriegsschöpfungen u.a. die Viscount und die VC10 gehörten, wurde in die British Aircraft Corporation eingegliedert, die sich heute im gemeinsamen Besitz von Vickers und GEC befindet.

Im Jahre 1967 wurden die Stahlwerke von Vickers verstaatlicht.

Schiffs- und Maschinenbau – jeder führend auf seinem Gebiet – verblieben bei Vickers, doch hatte das Unternehmen nach neuen zusätzlichen Märkten für seine Erzeugnisse zu suchen.

Innerhalb eines Jahrzehnts nahm der Vickers-Konzern eine neue Form an. Neben dem traditionellen Schiffs- und Maschinenbau wurde mit Roneo-Vickers eine Büroausrüstungsgruppe aufgebaut, errang Crabtree-Vickers eine bedeutende Position in der Druckereimaschinenbranche und wurde durch die Howson-Algraphy ein weltweites Unternehmen für Druckplatten geschaffen. Außerdem wurden wichtige Positionen auf solchen Gebieten wie Hochseetechnologie und medizinischer Gerätbau erlangt.

Im Ausland verfügt Vickers über bedeutende Produktionsanlagen in Australien und Kanada, und auf dem europäischen Kontinent haben Roneo-Vickers, Howson-Algraphy und die Maschinenbaugruppe Produktionseinrichtungen und Vertriebsfirmen geschaffen.

1973 erhielten sowohl die Schiffsbaugruppe als auch Howson-Algraphy die Königliche Auszeichnung für besondere Exporterfolge.

Der Name Vickers ist heute wie vor 100 Jahren ein Symbol für herausragende Leistungen der britischen Industrie.

## Avant-propos

Depuis plus de 150 ans, Vickers figure parmi les grands noms de l'industrie britannique. Après avoir débuté par la sidérurgie, la société étendit ses activités à la mécanique, à la construction navale et à l'armement puis, au début du siècle actuel, elle se lança dans l'aéronautique, où elle occupe aujourd'hui une place prééminente.

Mais les temps changent, et les besoins évoluent. Les spécialistes de la division aéronautique de Vickers qui, dans les années d'après guerre, avaient produit entre autres le Viscount et le VC10 furent englobés par la British Aircraft Corporation dont Vickers et la GEC sont actuellement co-propriétaires.

En 1967, la division Sidérurgie de Vickers fut nationalisée. Les divisions Construction Navale et Mécanique demeuraient – toutes deux, d'ailleurs, à la pointe de leurs industries respectives – mais il fallait trouver de nouveaux débouchés.

En dix ans, Vickers s'est donné une nouvelle image. En plus des chantiers navals et de la construction mécanique, la société a mis sur pied le groupe de matériel de bureau Roneo Vickers, s'est assuré une place de choix dans l'industrie des machines pour l'imprimerie grâce à Crabtree-Vickers, et s'est créé une position enviable dans le monde de la lithographie avec Howson-Algraphy, sans compter le développement d'intérêts considérables en d'autres domaines tels que l'océanographie et le génie médical.

A l'étranger, Vickers jouit de gros intérêts en Australie et au Canada ainsi qu'en Europe, où des sociétés de fabrication et de distribution ont été établies par Roneo Vickers, Howson-Algraphy et le Groupe de Construction Mécanique.

En 1973, la division de Construction Navale et Howson-Algraphy reçurent toutes deux la "Queen's Award", récompensant leur succès dans le domaine de l'exportation.

Aujourd'hui, tout comme il y a cent ans, le nom "Vickers" demeure synonyme des plus grandes réussites de l'industrie britannique.

## Вступление

Уже свыше 150 лет фирма «Викерс» занимает ведущее положение в промышленности Великобритании. Компания начала свое существование в качестве сталелитейного предприятия. Впоследствии деятельность компании распространилась на машиностроение, судостроение и выпуск оружия — это охватывает сферу активности компании к концу XIX столетия. В начале XX столетия фирма «Викерс», в дополнение к перечисленным отраслям промышленности, заняла ведущую роль и в авиационной отрасли промышленности.

Однако обстоятельства меняются, меняется и спрос. Конструкторское и производственное отделение фирмы «Викерс», связанное с авиацией, к послевоенным достижениям которого относится создание лайнеров «Вайкант» и «VC10», стало частью «Бритиш Эркрафт Корпорэйшн», фирмы, которая теперь принадлежит двум компаниям: «Викерс» и «Джи И Си».

В 1967 году сталелитейный филиал фирмы «Викерс» был национализирован.

Продолжали оставаться отрасли судостроения и машиностроения, каждая из которых занимала ведущее положение, однако фирме «Викерс» с ее возможностями пришлось искать новые сферы деятельности.

Прошло всего лишь десять лет, и облик фирмы преобразился. Наряду с судостроением и машиностроением вырос филиал «Ронео Викерс» по выпуску конторского оборудования, который занимает ведущее положение в промышленности по выпуску печатного оборудования благодаря своему отделению «Крабтри-Викерс», а также ведет коммерческую деятельность в международном масштабе в области изготовления офсетных печатных форм через отделение «Хаусон-Алграфи». В дополнение фирма выдвинулась на передовые позиции в океанологии и в производстве медицинского оборудования.

За рубежом фирма «Викерс» занимает значительное положение в области производства в Австралии и Канаде, а в Европе отделениями фирмы «Викерс» — «Ронео Викерс», «Хаусон Алграфи» и «Эндженеринг Груп» были созданы компании по производству и сбыту.

В 1973 году как филиал «Шипбилдинг групп» — филиал судостроения, так и филиал «Хаусон-Алграфи» завоевали «Квинз Эворд» — награду, присуждаемую королевой Великобритании за выдающиеся успехи в области экспорта.

И в наши дни, как и 100 лет назад имя «Викерс» продолжает оставаться критерием высоких достижений Британской промышленности.

